

ALAMPIYEV, P.M.; KISTANOV, V.V.; MAZANOVA, M.B.; CHUMICHEV, D.A.

Dividing the Mongolian People's Republic into main economic zones. Izv. AN SSSR. Ser. geog no.1:24-36 Ja-F '62.

(MIRA 15:2)

1. Institut ekonomiki mirovoy sotsialisticheskoy sistemy AN SSSR,  
Sovet po izucheniyu proizvoditel'nykh sil Gosekonomsoveta SSSR  
i Institut geografii AN SSSR.

(Mongolia--Economic zoning)

ZHURAVLEVA, S.I.; CHUMICHEV, D.A.

Regions of agricultural specialization in Bulgaria. Izv. AN  
SSSR. Ser. geog. no.2:82-87 Mr-Apr '62. (MIRA 15:3)

1. Institut geografii AN SSSR.  
(Bulgaria--Agricultural geography)

CHUMICHEV, D.A.

Development and distribution of agriculture in the Mongolian People's Republic. Izv. AN SSSR. Ser. geog. no.1:14-23 Ja-F '64.

(MIRA 17:3)

1. Institut geografii AN SSSR.

GERASIMOV, I.P.; ZIMINA, R.P.; LILYENBERG, D.A.; L'VOVICH, M.I.;  
MESHCHERYAKOV, Yu.A.; CHUBUKOV, L.A.; CHUMICHEV, D.A.

In memory of Anastar Stoianov Beshkov (1896-1964), a famous  
Bulgarian geographer. Izv. AN SSSR. Ser. geog. no.3:134 '64.  
(MIRA 17:6)

CHUMICHEV, I.F., inzh., red.; SMIRNOVA, G.V., tekhn.red.

[Album of drawings of spare parts for the 1336 M-type turret lathe] Al'bom chertezhei zapasnykh detalei tokarno-revol'vernogo stanika modeli 1336M. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'stva, 1959. 47 p. (MIRA 12:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorazrabotki stankov.  
(Lathes)

CHUMICHEV, I.F., inzh., red.; STUPIN, A.K., red.izd-va; SOROKINA, G.Ye.,  
tekhn.red.

[Album of spare-part designs for the 2A592 radial-drilling machine]  
Al'bom chertezhei zapasnykh detalei radial'no-sverlil'nogo stanka  
modeli 2A592. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.  
lit-ry, 1960. 22 p. (MIRA 13:9)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metallorazhreshchikh stankov.  
(Drilling and boring machinery)

CHUMICHEV, I.F., inzh., red.; KARGANOV, V.G., red.izd-va; SOROKINA, G.Ye.,  
tekhn.red.

[Album of drawings of spare parts for the JA250 multiple-purpose internal grinding machine] Al'bom chertezhei zapasnykh detalei universal'nogo vnutrishlifoval'nogo stanka modeli JA250. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 36 p.

(MIRA 13:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallovezhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta metallovezhushchikh stankov (for Chumichev).

(Grinding machines)

CHUMICHEV, I.P., inzh., red.; BOL'SHAKOV, B.N., red.izd-va; SOROKINA,  
G.Ye., tekhn.red.

[Albums of drawings of spare parts for the 7A35 transverse  
planing machine] Al'bom chertezhei zapasnykh detalei poperechno-  
strogal'nogo stanka modeli 7A35. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit.lit-ry, 1960. 39 p. (MIRA 13:11)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metalloreshushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya  
Eksperimental'nogo nauchno-issledovatel'skogo instituta metallores-  
hushchikh stankov (for Chumichev).

(Planing machines)



CHUMICHEV, I.F., inzh., red.; BOL'SHAKOV, B.N., red.izd-vs; GORDEYEVA,  
L.P., tekhn.red.

[Album of drawings of spare parts for the 679 multiple-purpose  
tool-milling machine] Al'bom chertezhei zapasnykh detalei  
instrumental'nogo universal'no-frezernogo stanka modeli 679.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.  
50 p. (MIRA 13:11)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metallorazhreshchikh stankov. 2. Otdel tekhnologii mashino-  
stroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta  
metallorazhreshchikh stankov (for Chumichev).  
(Milling machines)

CHUMICHEV, I.F., inzh., red.; ARTYUKHIN, V.A., red.izd-va; TIKHANOV,  
A.Ya., tekhn.red.

[Album of drawings of spare parts for the 1A136 automatic turret  
lathe] Al'bom chertezhei zapasnykh detalei tokarno-revol'vernogo  
avtomata modeli 1A136. Moskva, Gos.nauchno-tekhn.izd-vo mashino-  
stroit.lit-ry, 1960. 55 p. (MIRA 13:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metallorazhreshchikh stankov. 2. Otdel tekhnologii mashinostro-  
yeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta  
metallorazhreshchikh stankov (for Chumichev).

(Lathes)

CHUMICHEV, I.F., inzh., red.; KASPEROVICH, N.S., inzh., red. izd-va;  
TIKHANOV, A.Ya., tekhn. red.

[Album of spare parts for 262G and 262D horizontal boring machines] Al'bom chertezhei zapasnykh detalei gorizonta'l'no-rastochnykh stankov modelei 262G i 262D. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1960. 87 p.

(MIRA 13:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallo-rezhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta metallo-rezhushchikh stankov (for Chumichev).

(Drilling and boring machinery)

CHUMICHEV, I.F., inzh., red.; GORDEYEVA, L.P., tekhn. red.;

[Album of drawings of spare parts for the 6N82 universal milling machine, the 6N82G horizontal milling machine, and the 6N12 vertical milling machine] Al'bom chertezhei zapasnykh detalei universal'no-frezernogo stanka modeli 6N82, gorizonta'l'no-frezernogo stanka modeli 6N82G i vertika'l'no-frezernogo stanka modeli 6N12. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 71 p.

(MIRA 14:9)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorazhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta metallo-razhushchikh stankov (for Chumichev).

(Milling machines)

CHUMICHEV, I.F., inzh., red.; KASPEROVICH, N.S., red. izd-va; GORDEYEVA,  
L.P., tekhn. red.

[Album of spare-part drawings for the 6N81 universal milling machine, the 6H81G horizontal milling machine and the 6H11 vertical milling machine] Al'bom chertezhei zapasnykh detalei universal'no-frezernogo stanka modeli 6N81, gorizonta'l'no-frezernogo stanka modeli 6N81G i vertika'l'no-frezernogo stanka modeli 6N11. Moskva, Mashgiz, 1961. 59 p.  
(MIRA 14:11)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallo-rezhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta metallo-rezhushchikh stankov (for Chumichev).

(Milling machines—Design and construction)

CHUMICHEV, I.F., inzh., red.; KASPEROVICH, N.S., red. izd-va; SMIRNOVA, G.V.,  
tekh. red.

[Album of drawings of spare parts for the 1261M automatic six-spindle lathe and the 1261P semiautomatic six-spindle lathe] Al'bom chertezhei zapasnykh detalei shestishpindel'nogo tokarnogo avtomata modeli 1261M i shestishpindel'nogo tokarnogo poluavtomata modeli 1261P. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1961. 120 p.

(MIRA 14:11)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallo-rezhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya eksperimental'nogo nauchno-issledovatel'skogo instituta metallo-rezhushchikh stankov (for Chumichev).

(Lathes)

CHUMICHEV, I.F., inzh., red.; BOL'SHAKOV, B.N., red. izd-va;  
SMIRNOVA, Ye.I., tekhn. red.

[Standard design for the modernization of the 3180 centerless grinding machine] Tipovoi proekt modernizatsii bes-tsentrrovoshlifoval'nogo stanka modeli 3180. Moskva, Mashgiz, 1962. 299 p. (MIRA 16:6)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallovezhushchikh stankov.  
(Grinding machines)

CHUMICHEV, I.F., inzh., red.; ARTYUKHIN, V.A., red.izd-va; SMIRNOVA, G.V., tekhn. red.

[Standard design for the modernization of the 2118 upright drilling machine] Tipovoi proekt modernizatsii vertikal'no-sverlil'nogo stanka modeli 2118. Moskva, Mashgiz, 1962. 99 p.

(MIRA 16:4)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallovezhushchikh stankov. 2. Otdel tekhnologii mashinostroyeniya Eksperimental'nogo nauchno-issledovatel'skogo instituta metallovezhushchikh stankov (for Chumachev).

(Drilling and boring machinery)



Б(6); 9(2)

SOV/91-59-10-14/29

AUTHORS: Yeremin K.A. and Chumichev N.I., Engineers

TITLE: Protective Measures for Relays Operating on Alternating Current

PERIODICAL: Energetik, 1959, Nr. 10, pp 24-25, (USSR)

ABSTRACT: On the basis of experience, it has been established that the weakest link in a relay system operating on alternating current is the saturation transformer., Type TKB-1, working with an open secondary winding. Depending on the intensity of the primary current, the resistance of TKB-1 attains 10 ohm and more, which causes a non-permissible, large load on the basic protective current transformers. In short-circuits, due to saturation of secondary winding cores of transformers feeding the TKB-1, dangerous tension peaks are created, attaining, according to data of the plant "Elektroapparat", 1400 volts. Thus, the initial defects of insulation can cause closing of turns not only in TKB-1 windings, but also in the secondary windings of current transformers; as a result, the relay system goes out of service. In order to remedy the situa-

Card 1/2

SOV/91-59-10-14/29

Protective Measures for Relays Operating on Alternating Current

tion, the following measures were taken: 1) The saturation transformers TKB-1 are operated with closed secondary winding; 2) De-shunting the switching-off coil circuit is performed by common relays, series IT-81 and IT-82, with contacts re-arranged for work on opening. In Fig. 1-a and 1-b, layouts of a maximum current protection, and in Fig. 2 - a maximum directed protection are given. Operation of TKB-1 with closed secondary winding has an advantage in that its impedance never exceeds 2 ohms, that is, it is never greater than the protection with direct action relays, Type KAM or RTV. It was experimentally established, at current intensity of 50-100 amp. in the primary winding of TKB-1, intensity in the secondary winding never exceeds 40 amp.; at that, not over 0.9 amp. is branched into the switching-off coil. Application of maximum current protection carried out according to the described method by a number of Leningrad sub-stations disclosed no defects. There are 2 diagrams.

Card 2/2

CHUMICHEV, N. M.

Use of fiber bushings and inserts instead of the metallic ones.  
Put' i put. khoz. 8 no.5:42 My '64. (MIRA 17:6)

1. Zamestitel' nachal'nika Moskovsko-Gor'kovskoy distantssi.

CHUMICHEV, N. S.

PA 37/49T72

USSR/Engineering  
Machinery - Construction  
Efficiency, Industrial

Sep 48

"Uralmash, the Pride of Soviet Industry," N. S.  
Chumichev, Dir, Ural Heavy Mach-Bldg Plant imeni  
Sergey Ordzhonikidze, 2 $\frac{1}{2}$  pp

"Vest Mashinostroy" Vol XXVIII, No 9

Subject plant celebrated its 15th anniversary on  
15 Jun 48. Describes its achievements before, during,  
and after World War II.

37/49T72

SHUVALOV, A.; BABAYEV, Yu.; CHUMICHEV, V., naladchik-mekhanik; LOYFERMAN, A.; DVORKIN, M., rabochiy (derevnya Sadovniki, Moskovskoy oblasti)

Innovators of the capital province. Prom.koop. 13 no.10:16-18  
0 '59. (MIRA 13:2)

1. Predsedatel' pravleniya arteli "Emal'krasa," derevnya Saburovo, Moskovskoy oblasti (for Shuvalov). 2. Tekhnoruk arteli invalidov im. XXX let Oktyabrya, g. Babushkin, Moskovskoy oblasti (for Babayev). 3. Artel' invalidov "Pobeda," g. Tushino, Moskovskoy oblasti (for Chumichev). 4. Zakroyshchik plastikata sportivnoy arteli, derevnya Sadovniki, Moskovskoy oblasti (for Loyferman).

(Moscow Province--Manufactures--Technological innovations)

SEREDA, G.A.; CHUMICHEV, V.B.

Use of ionites for concentrating artificial radioactive isotopes  
contaminating atmospheric precipitations. Atom. energ. 12 no.1:  
66-67 Ja '62. (MIRA 15:1)  
(Ion exchange) (Radioactive isotopes) (Precipitation (Meteorology))

L 02461-67 EWT(1)/EWT(m) JXI(CZ)/GW

ACC NR: AT6028955

(N)

SOURCE CODE: UR/2566/66/082/000/0020/0023

AUTHOR: Chumichev, V. B.

ORG: none\*

TITLE: Strontium 90 content in Pacific Ocean waters during 1962 and 1964

SOURCE: \*AN SSSR. Institut okeanologii. Trudy, v. 82, 1966. Issledovaniya radioaktivnoy zaryaznennosti vod mirovogo okeana (Investigations of radioactive contamination of waters of the oceans), 20-23

TOPIC TAGS: nuclear radiation, strontium ~~90~~, ocean radioactivity, radioactive fallout, radioactivity, *ISOTOPE / PACIFIC OCEAN*

ABSTRACT: The article deals with the results of determinations of Sr<sup>90</sup> concentration on the surface and in the subsurface water layer in the central Pacific Ocean. A description is given of the radiochemical analysis performed in the determinations; the results and station coordinates for 1962 and 1964 are presented in tabular form. It was found that during July—August 1962, the concentration of Sr<sup>90</sup> was somewhat higher than in January 1962. In January—February 1964, the mean concentration of Sr<sup>90</sup> in the surface water was the same as in January 1962, i.e., 70—80 distrib/min/100 l. The author acknowledges the assistance of A. G. Ovchinnikov and V. V. Yegorov in the project. Orig. art. has: 1 figure, and 2 tables.

SUB CODE: 18, 08/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 003  
Card 1/1 *LC*

37  
B+1

CHUMICHEV, V.L.

Compensation buret for Golden's gas analyser. *Fiziol.zhur.* 42 no.9:  
819-820 S '56. (MLRA 9:11)

1. Kuznetzkiy filial Tsentral'noy nauchno-issledovatel'skoy labora-  
torii gornospasatel'nykh chastey Minuglya SSSR.

(RESPIRATION,

determ. of gas exchange with Golden's gas analyser,  
compensation biuret (Rus))



BLAGOOBRAZOV, V.A.; BONDAREV, L.G.; KOZHEVNIKOVA, N.D.; POGODINA, G.S.;  
TOKOBAYEV, M.M.; CHUMICHEVA, G.D.; SHCHERBAKOV, M.P.; ZABIROV,  
R.D., kand.-geogr. nauk, red.; BLAGOOBRAZOV, V.A., red.;  
SKRIPKINA, Z.I., red.izd-va; ANOKHINA, M.G., tekhn. red.

[The Naryn River basin; physicogeographical features] Bassein reki  
Naryn; fiziko-geograficheskaya kharakteristika. Frunze, 1960. 288 p.

- (MIRA 14:6)  
1. Akademiya nauk Kirgizskoy SSR, Frunze. Otdel geografii.  
(Naryn Valley—Physical geography)

CHUMICHEVA, G.D.; BLAGOOBRAZOV, V.A.

Landform-geochemical characteristics of the northern slope of  
the Terskey Ala-Too. Rab. Tian'-Shan' vysokogor. fiz.-geog. sta.  
no.5:33-45 '62. (MIRA 17:10)

BARANOVA, G.P.; CHUMICHEVA, N.A. (Moskva)

Arithmetic tests for fifth grade students in the first half-year.  
Mat. v shkole no.4:67-68 JI-Ag '63. (MIRA 16:9)  
(Arithmetic—Study and teaching)

CHUMIKOV, V.  
USSR/Electronics - Radio

Card 1/1

Author : Chumikov, V.

Title : A Short-Wave Amateur Receiver-Set exhibited at the Eleventh All-Union Radio Exhibition

Periodical : Radio. 5, 50 - 53, May 1954

Abstract : The article describes an 11-tube receiver set for reception of short-wave signals from radio-telephone and radio-telegraph stations, operating on radio-amateur bands of 160-, 80-, 40-, 20-, and 10-meter wave-lengths. The receiver is powered by an AC line of 110, 127, or 220 volts. The power consumed is about 80 watts. The article gives a detailed description of the receiver's design, its stages, parts, and the principle of the receiver's operation. A table of coils and windings used is given and four diagrams (including a general circuit diagram) are shown in the article.

Institution : ....

Submitted : ....

CHUMIKOVA, A.

Training of volunteer workers. Prof.-tekh. obr. 20 no.6:24 Ja  
'63. (MIRA 16:7)

1. Predsedatel' oblastnogo soveta VDSO "Trudovyye rezervy".  
(Ivanovo Province--Community life)

3  
1.

GHUMIKOVA, A.P.

On the threshold of 1965. Tekst.prom. 20 no.6:45-47  
Je '60. (MIRA 13:7)

1. Direktor fabriki imeni N.K.Krupskoy.  
(Textile industry)

CHUMIN, A. P.

"Cherkess Autonomous Oblast. (Economo-geographic Characteristics)." Leningrad State Pedagogic Inst imeni A. I. Gertsen, Chair of Economic Geography, Leningrad, 1955. (Dissertation for the Degree of Candidate of Geographical Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

YERMEKOV, M.A., zasluzhenny deyatel' nauki Kazakhskoy SSR; GLADKOV, P.F.,  
mladshiy nauchnyy sotrudnik; CHUMIN, N.P., mladshiy nauchnyy sotrudnik

Fat-tailed sheep of central Zazakhstan. Zhivotnovodstvo 24 no.9:61-67  
S '62. (MIRA-15:12)

1. Kazakhskiy nauchno-issledovatel'skiy institut zhivotnovodstva.  
(Kazakhstan—Sheep breeds)



CHUMIN, N.P. [deceased]

Introduction of argali merino sheep of Kazakhstan into the farms  
of central Kazakhstan. Izv. AN Kazakh. SSR. Ser. biol. nauk 2 no.1:  
77-81 Ja-F '64. (MIRA 17:6)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120010-3

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120010-3"

CHANN, P.C.

carried out on the Elotron (y-spectrometer with improved  
focusing using the electron gun). The results are shown in



7 (4), 7 (5), 21 (9)

AUTHORS: Dzhelepov, B. S., Ivanov, P. B., SOV/48-23-7-1/31  
Nedovesov, V. G., Chumin, V. G.

TITLE: Magnetic  $\alpha$ -Spectrometer (Magnitnyy  $\alpha$ -spektrometr)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,  
Vol 23, Nr 7, pp 782-787 (USSR)

ABSTRACT: In the introduction of this paper, it is pointed out that most  $\alpha$ -spectrometers work with inhomogeneous magnetic fields, and that their resolving power is different (half-width of the lines 0.05 to 0.08 %) and their light intensity is low (aperture ratio 0.01 to 0.08 % of  $4\pi$ ). The purpose of the present paper is to develop an  $\alpha$ -spectrometer with a resolving power of 0.10 % at an aperture ratio of 0.3 % of  $4\pi$ . In the first part of the paper, the experimental arrangement (electromagnet with its screening and current supply, evacuation plant, accommodation of the radioactive sources, as well as the geometrical control of the  $\alpha$ -ray) is described in detail, and supplemented by figure 1 (pole shoes) and figure 2 (chamber). The second part deals with the measurement of the axial-symmetric magnetic field. The focusing angle is indicated with  $\pi\sqrt{2}$ , and three papers are mentioned showing that

Card 1/3

Magnetic  $\alpha$ -Spectrometer

SOV/48-23-7-1/31

spectrometers of this type have the most favorable relation between resolution and light intensity. For the axial component, an equation is given in which the coefficient  $\beta$  determines the focusing properties of the field. The influence of the magnitude of  $\beta$  on the width is discussed, and the measurement of the topography of the magnetic field by means of a rotatable coil is dealt with. These measurement results are shown in a diagram (Fig 3). Another diagram shows the topography of the magnetic field in dependence on the position of the screening rings on the pole shoes (Fig 4). The  $\alpha$ -particles are recorded by thick nuclear photoemulsions. The last part deals with the determination of the characteristic of the spectrometer. It was carried out with a  $\text{Po}^{210}$ -source, and the half-width of the lines amounted to 0.1 %. A variation of the solid angle did not show any influence, and the variation of the half-width of the line caused by a change in width and height of the source followed theoretical formulas of a previous paper (Ref 10). A diagram shows the dependence of the resolving power on the aperture ratio of the spectrograph (Fig 5). B. P. Shishin took part in the adjustment and calibration of the instrument. The

Card 2/3

Magnetic  $\alpha$ -Spectrometer

SOV/48-23-7-1/31

authors thank the collaborator K. I. Yakovlev for the ~~building of an~~  
~~instrument for~~ the measurement of the magnetic field by the method of proton  
resonance, D. M. Ziv and V. V. Fedorov for the preparation of  
the polonium sources, and also A. P. Zhdanov for his help in  
the preparation of the photoemulsions. There are 5 figures and  
10 references, 2 of which are Soviet.

ASSOCIATION: Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR  
(Radium Institute imeni V. G. Khlopin of the Academy of  
Sciences, USSR)

Card 3/3

Chumir, V.G.

5/018/60/024/03/21/193  
B066/3014

24.6220

AUTHORS:

ABURASTOV, A. A.; GROMOV, E. Ye.; DUBELSON, B. S.;  
KOROTKOV, Yu. V.; DUBROV, S. Ya.; CHUMIR, V. G.

TITLE:

The 75-minute Activity of  $^{139}\text{La}$

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1960,  
Vol. 24, No. 3, pp. 278-282

NOTE: The article under review was read at the "Fifth All-Union Conference on Nuclear Spectroscopy" (Moscow, January 19 - 21, 1960). The authors analyzed the spectra of electrons and positrons arising in the decay of the 75-minute  $\text{La}$  isotope by means of a magnetic 90-degree spectrometer with a homogeneous magnetic field. The half-width of the  $\text{Cs}^{137}$   $\beta$ -spectrum is 0.15 keV. Electrons were recorded by an electron spectrometer with a 100-degree angle of view. The positron spectrum was recorded by a 100-degree angle of view. The authors conclude from the results of the experiment that the half-life of  $^{139}\text{La}$  is 75 minutes. The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one. The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one. The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one.

Card 1/3

of 1,300 - 2,940 keV there occurred no deviations from the shape which is characteristic of allowed  $\beta$ -transitions. The energy limit of the  $\beta$ -spectrum is found at 2,940 keV. A deviation of the spectrum from the Fermi shape was observed at energies below 1,300 keV. If this deviation is assumed to be related to a second component of the  $\beta$ -spectrum, its energy limit should then be at 1,300 keV. L- and M-lines of the 91.5-keV transition and K- and L-lines of the 211-keV transition were found in the spectrum of conversion electrons. Data on conversion lines are compiled in Table 1. The mass number of this 75-min isotope has not yet been ascertained, but a number of authors believe it to be among 167. The opinions of various authors are cited in this communication. To conclude from the investigation results, the authors of the present paper (Table 2) it was concluded that this isotope is  $^{139}\text{La}$ . The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one. The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one. The authors also note that the  $\beta$ -spectrum of  $^{139}\text{La}$  is not a simple one.

Card 2/3

the conversion electron spectrum with a view to determining the  $Z$  of that nucleus in which the 91.5-keV transition, excited in the decay of  $^{139}\text{La}$ , occurs. Respective data are given in Table 3. It was thus proven that the 75-min activity is actually to be ascribed to the isotope number 164. There are 4 figures, 3 tables, and 12 references, 7 of which are Soviet.

ASSOCIATION: Laboratoriya yadernykh problem Ob'yedinnenogo Instituta yadernykh issledovaniy (Laboratory of Nuclear Problems of the Joint Institute of Nuclear Research, JINR, Dubna, Moscow Region, U.S.S.R.)  
Priblitsitelnyy Institut (Soviet) Central Asia Polytechnic Institute

Card 3/3



5

83671

246700  
2/04/60/024/009/004/015  
0013/0005

AUTHORS: BARANOV, V. I., GUSEV, K. Ya., REBOLSKAYA, B. A., ZEMCHENKO, E. V.,  
CHURILIN, V. A., KROKHIN, B. A.,  
CHURILIN, V. A.

TITLE: The New Isotopes  $Ir^{184}$  and  $Pt^{187}$

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 9, pp. 1079 - 1082

TEXT: The spectrum of the conversion electrons of the iridium fraction was analyzed by means of a  $\beta$ -spectrometer of the type 572. This fraction was formed during the distillation of gold-bismuth alloys with 660-Mev protons. Mathematically pure  $Ir^{184}$  and  $Pt^{187}$  were separated from a bombardment product of gold plates with  $2.5 \times 10^8$  (Ref. 1). The spectrum of the  $Ir^{184}$  showed gamma lines with a half-life of  $3.1 \pm 0.3$  hours. These were identified as  $L-120$ ;  $M-120$ ;  $K-264$ ;  $L-264$ ;  $M-264$ ;  $L-391$  and  $L-391$  transitions. Experimental data on these lines are collected in Table 1. The measured iridium spectrum (Series 1) is shown in Fig. 1a, part of which is shown in a higher resolution in Fig. 1b. In addition, the  $L$ -,  $M$ -, and  $N$ -lines of the

Card 1/3

$^{120}\text{-keV}$  gamma transition were studied by means of a  $\beta$ -spectrometer with double focusing (of the type 572) and increased resolution (Ref. 2). The data obtained are given in Table 2. They indicate that the observed gamma transitions take place in the even-even osmium nucleus (Figs. 2 and 3). On the strength of the data obtained, the authors suggest a decay scheme for  $Ir^{184}$  (Fig. 4). In addition to the above-mentioned lines, the iridium fraction contained numerous lines that belonged to other  $Ir$  isotopes:  $Ir^{186}$ ,  $Ir^{187}$ , and  $Ir^{188}$ . Next, the determination of the half-life of  $Pt^{187}$  is described. The half-life of this isotope was found to be  $2.0 \pm 0.4$  hours. For comparison, the half-life of the well-known isotope  $Pt^{186}$  was determined. Its half-life of  $2.5 \pm 0.5$  hours is in good agreement with the results of Ref. 7. There are 4 figures, 2 tables, and 7 references; 3 Soviet.

Card 2/3

ASSOCIATION: Institut goskhimii i analiticheskoy khimii im. V. I.  
Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and  
Analytical Chemistry) Lenin V. I. VERNADSKY OF THE ACADEMY OF  
Sciences USSR)  
Ob'yedinenyy Institut yadernykh issledovaniy (Joint Institute  
of Nuclear Research)

Card 3/3

CHUMIN, V. G.

SECRET

2L.254/

40091

S/048/62/026/008/001/028  
B141/B108

AUTHORS: Bonch-Osmolovskaya, N. A., Gromov, K. Ya., Dzhelepov, B. S.,  
Kraft, O. Ye., Malyshova, T. V., Nikityuk, L. N., Khotin,  
B. A., Chou Yüeh-wa, and Chumin, V. G.

TITLE: The predicted isomer Ir<sup>186</sup>

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,  
v. 26, no. 8, 1962, 975-976

TEXT: Positrons with an intensity decrease of  $T_{1/2} \sim 2$  hrs were discovered in a spectrometric investigation of an iridium fraction obtained from a gold target irradiated by 660-Mev protons. The positron spectrum consisted of five components (end-point energies 3400, 2600, 1930, 1300, ~800 kev; relative intensities 1, 20, 44, 12, 22). The conversion electron spectrum of the same Ir fraction had two lines (M 137, N 137). The I(t) of these lines curve could not be attributed to a single halflife. M 137 consists of two components, one with  $T_{1/2} = 15 \pm 1$  hrs and one with  $1.7 \pm 0.2$  (Ir<sup>186</sup>) which is, within the limits of error, equal to the  
Card 1/2

The predicted isomer Ir<sup>186</sup>

S/048/62/026/008/001/028  
B141/B108

$T_{1/2} = 2.0 \pm 0.3$  of the positron spectrum. As no positron-active Ir isotope with  $T_{1/2} \sim 2$  hrs is known so far, the authors assume that this half-life pertains to a new isomer Ir<sup>186</sup>. There is 1 figure.

Card 2/2

BONCH-OSMOLOVSKAYA, N.A.; GROMOV, K.Ya.; DZHELEPOV, B.S.; KRAFT, O.Ye.;  
MALYSHEVA, T.V.; NIKITYUK, L.N.; KHOTIN, B.A.; CHZHOU YUYE-VA  
[Chou Yüeh-wa]; CHUMIN, V.G.

On the supposed isomer  $\text{Ir}^{186}$ . Izv. AN SSSR. Ser. fiz. 26  
no.8:975-976 Ag '62. (MIRA 15:11)  
(Iridium—Isotopes)

ZAYTSEVA, N.G.; KUZNETSOV, V.V.; KUZNETSOVA, M.Ya.; MA KHO IK; MUZIOL', G.;  
KHAN' SHU-ZHUN' [Han Shu-jun]; CHZHOU MO-LUN [Chou Mo-lung]; CHUMIN,  
V.G.

New neutron-deficient zirconium isotopes. IAd. fiz. l no.3:385-388  
Mr '65. (MIRA 18:5)

1. Ob'yedinennyy institut yadernykh issledovaniy.

ADAM, I.; DENISOV, Yu.N.; KOKESH, A.; CHUMIN, V.G.; SHISHLYANNIKOV, P.T.

System for automatic measurement of conversion electron spectra  
using a magnetic  $\beta$ -spectrometer. Izv. AN SSSR. Ser. fiz. 29  
no.12:2147-2156 D '65. (MIRA 19:1)

1. Laboratoriya yadernykh problem Ob'yedinennogo inst'tuta  
yadernykh issledovaniy i Institut yadernykh issledovaniy  
Chekhoslovatskoy Akademii nauk.

CHUMINA, I. upravlyayushchiy domami.

Satisfy more completely the daily needs of the population. Zhil.  
-kom.khoz. 6 no.4:4-6 '56. (MLBA 9:8)  
(Moscow--Apartment houses--Maintenance and repair)

BLAGODARNYY, Ya.A.; TOMILOVA, T.P.; CHUMINA, L.N.

Results of an investigation of the carrying of Leptospira by  
large gerbils and steppe tortoises in the northern Kyzyl-Kum.  
Izv. AN Kazakh. SSR. med. i fiziol. no. 2:21-25 '60.

(MIRA 13:10)

(KYZYL-KUM--LEPTOSPIRA) (TORTOISES) (GERBILS)



BLAGODARNYY, Ya.A., kand.med.nauk; LEVIN, V.R.; AMAN'HOLOV, S.A., kand. vet. nauk; KERIMBEKOV, B.K.; KOROTEYEVA, L.V.; LISIKHIN, I.A.; MODELEVSKIY, B.Sh.; MUNAYTBASOVA, G.A.; SHAPIRO, D.M., kand.med.nauk; CHUMINA, L.N.

Materials of the expedition for the study of tuberculosis in  
Kzyl-Orda Province of the Kazakhs S.S.R. Probl. tub. 42 no.8:9-  
15 '64. (MIRA 18:12)

1. Otdel epidemiologii tuberkuleza (zav. - kand.med.nauk Ye.A. Blagodarnyy) Kazakhskogo instituta krayevoy patologii (direktor - kand.med.nauk B.A.Atchabarov) AMN SSSR, Alma-Ata, 1 otdel epidemiologii i organizatsii bor'by s tuberkulezom (zav. - prof. S.V.Massino) Tsentral'noye instituta tuberkuleza (direktor - deystvitel'nyy chlen AMN SSSR prof. N.A.Shmelev) Ministerstva zdravookhraneniya SSSR, Moskva.

CHUMINA, O. T.

USSR / Cultivated Plants. Fodder Grasses and Root Crops. M-3

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6318

Author : Chumina, O. T.

Inst : Acad. Sci. Kaz SSR

Title : The Indicators of Water Supply in Annual  
Fodder Crops in Connection with Their Develop-  
ment and the Conditions of Their Cultivation

Orig Pub : Izv. AN Kaz SSR, Ser. botan. 1 pochvoved.,  
1958, vyp 1, 49-56

Abstract : The results of experiments with foxtail millet  
(Alma-Ata 396 variety), summer vetch (Bogoro-  
ditskaya 800) and oats (Zolotoy dozhd'),  
carried out by Academy of Sciences Kazakh SSR  
in Kaskelenskiy Rayon of Alma-Atinskaya Oblast'  
in 1954-1956, are given in this paper. The  
critical amounts of concentration of cell  
fluid (refractometer readings) for foxtail

Card 1/2

CHUMINA, O. T.: Master Biol Sci (diss) -- "Changes in the indexes of the water balance of certain annual fodder plants in connection with their individual development and conditions of cultivation". Alma-Ata, 1959. 17 pp (Kazakh State Univ S. M. Kirov, Scil-Biology Faculty), 150 copies (KL, No 16, 1959, 107)

VOYNOVSKAYA, K.K.; CHUMINA, O.T.

Physiological study on self-pollinated lines and hybrids of  
corn in southern Kazakhstan. Trudy Inst. bot. AN Kazakh.  
SSR. 12:60-69 '62. (MIRA 15:5)  
(Kazakhstan-- Corn breeding)

DOBRUNOV, L.G.; CHUMINA, O.T.

Ontogenetic and metameric variation of the water balance in plants.  
Izv.AN Kazakh.SSR.Ser.bot.i pochv. no.3:42-54 '62. (MIRA 15:12)  
(Plants—Water requirements)

CHUMINA, O.T.; VOYNOVSKAYA, K.R.

Changes of some physiological indices of corn leaves under various  
conditions of cultivation. Trudy Inst.bot.AN Kazakh.SSR 20:61-71  
1962. (MIRA 2831)

DOBRUNOV, L.G.; CHUMINA, O.T.

Physiological differences in the leaf apparatus of the parent forms  
and heterotic tobacco plants. Trudy Inst.bot.AN Kazakh.SSR 20:112-  
127 '64. (MIRA 18:1)

KONSTANTINOV, G.I.; CHUMLYAKOVA, N.K.

Attaining greater precision in certain climatic data on Krasnoyarsk  
Territory. Stroi. v raion. Vest. Sib. i Krain. Sev. no.1:125-131 '61.  
(MIRA 17:11)



DEVYATKA, Ye.A.; CHUMLYAKOVA, N.K.

Climatic characteristics of the principal districts of Eastern Siberia.  
Stroi. v raion. Vost. Sib. i Krain. Sev. no.2:81-92 '62. (MIRA 18:7)

CHUNAKOVA, Ye.P.

Nicotinic acid metabolism in patients after total gastrectomy. Vop.  
pit. 19 no.2:30-35 Mr-Apr '60. (MIRA 14:7)

1. Iz otdeleniya bolezney organov pishchevareniya (zav. - prof. O.L.  
Gordon [deceased]), kliniki lechebnogo pitaniya Instituta pitaniya  
AMN SSSR, Moskva.

(NICOTINIC ACID)

(STOMACH—SURGERY)

PROSTYKOV, K.M.; CHUNAKOVA, Ye.P.; TRANGEYZER, V.A.

Determination of radioactive iodine resorption from the intra-cutaneous depot in atherosclerosis and hypertension. Med. rad. 8 no.9:7-14 S'63. (MIRA 17:4)

1. Iz laboratorii radioizotopnoy diagnostiki (zav. - prof. M.N. Fateyeva) Instituta meditsinskoy radiologii AMN SSSR i kliniki lechebnogo pitaniya (zav. - doktor med. nauk I.S. Savoshchenko) Instituta pitaniya AMN SSSR.

CHUNAKOVA, Ye.P.

Vitamin PP insufficiency in patients with anacidic gastritis.  
Vop. pit. 22 no.4:61-65 J1-Ag '63.

(MIRA 17:10)

1. Iz kliniki lechebnogo pitaniya (zav. - doktor med. nauk L.M.  
Levitskiy) Instituta pitaniya AMN SSSR, Moskva.

CHUNAKOVA, Ye.P.

Possibility of the endogenous synthesis of nicotinic acid in  
total gastrectomy patients. Vop. pit. 22 no.6:27-30. N-D '63.  
(MIRA 17:7)

1. Iz kliniki lechebnogo pitaniya (zav. - doktor med. nauk I.S.  
Savoshchenko) Instituta pitaniya AMN SSSR, Moskva.

ALINOVSKIY, P.G.; CHUNAREV, N.V., starshiy nauchnyy sotrudnik; VELICHKO, I.M.,  
starshiy nauchnyy sotrudnik

From the practices of thermochemical disinfection of seeds. Zashch.  
rast. ot vred. i bol. 7 no.8:21-23 Ag '62. (MIRA 15:12)

1. Altayskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.
2. Zaveduyushchiy otdelom zashchity rasteniy Altayskogo nauchno-  
issledovatel'skogo instituta sel'skogo khozyaystva (for Alinovskiy).  
(Altai Territory--Seeds--Disinfection)  
(Altai Territory--Wheat--Diseases and pests)

L 46969-66 EWP(k)/EWT(m)/EWP(t)/ETI LJP(c) JD/HW/JH

ACC NR: AT6024946

(A,N)

SOURCE CODE: UR/2981/66/000/004/0307/0311

AUTHOR: Gol'dbukht, G. Ye.; Mal'tseva, L. I.; Shil'meyster, B. D.; Chunarev, V. A.

ORG: none

TITLE: Study of the capacity of semifinished products of V95-2 alloy for cold deformation

SOURCE: Alyuminiyevyye splayy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splayy (Heat resistant and high-strength alloys), 307-311

TOPIC TAGS: cold working, metal deformation, aluminum alloy property

ABSTRACT: Semifinished products of V95-2 alloy (sheets of 1.5 and 4 mm, tubes 40 x 1.5 and 20 x 1.5 mm, sections Pr100-6 and Pr113-2) were tested for cold deformation. Their chemical composition was (in %): Cu 1.5-2.7, Mg 1.3-2.7, Zn 3.0-4.7, Mn 0.2-0.8, Fe up to 0.8, Si up to 0.7, Ti no more than 0.05, Cr up to 0.25. It was found that the sheet material in the annealed and freshly quenched state can be subjected to stamping, forming and shaping operations. For sections with wall thicknesses of 1.0-1.5 mm in the quenched and artificially aged state, the following operations are permissible: bending with radii up to 120 mm, fullering with extension and fitting of the vertical flange with a radius up to 90 mm, incisions with a deformation up to 40%, beveling at angles up to 15°. Tubes 40-20 mm in diameter with a wall thickness of 1.5 mm can be subjected to bending with radii up to 70 mm in the annealed and freshly

Card 1/2

L 46969-66

ACC NR: AT6024946

3

quenched states without preheating and in the quenched and artificially aged state/  
with preheating of the area of deformation. In the processes of cold deformation,  
studied, the semifinished products of V95-2 alloy can be used instead of D1, AK6, and  
D16M alloys for a number of products made by cold deformation processes. Orig. art.  
has: 2 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: none

Card 2/2



BEZOUSHKA, Irzhi [Bezouska, Jiri], inzh.; VITLACHIL, Iosif  
[Vytlacil, Josef], inzh.; VALTER, Yaromir[Walter  
Jaromir]; CHUNAT, Ye.A.[translator]; SUMNIK, Z.A.,  
red.

[Study of the supply and demand of the population]  
Izuchenie potrebleniia i sprosa naseleniia. Moskva,  
Izd-vo "Statistika," 1964. 328 p. (MIRA 17:6)  
Translated from the Czech.

CHUNAYEV, M.V., kandidat tekhnicheskikh nauk; KONSTANTINOV, L.S., kandidat tekhnicheskikh nauk, retsenzent; GOLOVIN, S.Ya., inzhener, redaktor literatury po tyazhelomu mashinostroyeniyu; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Lubrication of foundry equipment] Smaska oborudovaniya liteinykh tsekhov. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1952. 91 p. [Microfilm] (MLRA 7:10)  
(Foundries) (Lubrication and lubricants)

CHUNAEV, M. V. and N. P. DUBININ.

Mekhanizatsiia proizvodstva kokil'nogo lit'ia. Moskva, Mashgiz, 1949. 146 p. illus.

Bibliography: p. 145.

Mechanization of chill casting production.

DLC: TS233.D8

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

CHUNA<sup>y</sup>EV, M. V., V. A. GEL'TSEL' and P. I. POLOVINKIN.

Konstruktsiia i raschet formovochnykh mashin. Moskva, Mashgiz, 1950.  
281 p. illus.

Design and calculations of pattern-making machines.

DLC: TS240.G45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

CHUNAYEV, M.V.

CHUNAYEV, M.V., kandidat tekhnicheskikh nauk.

Classification of foundry machines. Lit.proizv. no.4:10-15  
Ap '57. (MLRA 10:5)  
(Foundry machinery and supplies)

VOLKOVICH, Aleksandr Iosifovich; LAKSHIN, Abram Petrovich; KHAZIN,  
David L'vovich; CHUNAYEV, M.V., kand.tekhn.nauk, retsenzent;  
RABINOVICH, B.V., kand.tekhn.nauk, red.; TIKHANOV, A.Ya.,  
tekhn.red.

[Foundry machinery] Liteinye mashiny. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit.lit-ry, 1959. 464 p. (MIRA 12:5)  
(Foundry machinery and supplies)

PHASE I BOOK EXPLOITATION

SOV/4198

Chunayev, Mikhail Vasil'yevich, Candidate of Technical Sciences,  
Docent

Osnovy konstruirovaniya avtomaticheskikh ustroystv liteynogo proizvodstva (Fundamentals of Designing Automatic Devices for the Founding Industry) Moscow, Mashgiz, 1960. 459 p. 7,000 copies printed.

Ed.: S.L. Martens, Engineer; Managing Ed. for Literature on Heavy Machine Building: S.Ya. Golovin, Engineer; Tech. Eds.: A.F. Uvarova and T.F. Sokolova.

PURPOSE: The book is intended for technical personnel in the founding industry and students of schools of higher education specializing in machine construction.

COVERAGE: The book deals with means of automation in the founding industry. The information presented is said to be based on practices of progressive foundries and planning organizations. Designs of automatic devices are described, and the basic principles of automatic control of production processes are explained. Basic elements of the full mechanization and automation of production

Card 1/8

S/145/62/000/009/005/005  
D262/D308

AUTHORS: Chunayev, M.V., Candidate of Technical Sciences,  
Docent, and Novikov, V.P., Engineer

TITLE: An automatic installation for pouring aluminum  
alloys in die-casting machines with a cold compres-  
sion chamber and chill casting

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashino-  
stroyeniye, no. 9, 1962, 167-173

TEXT: This new automatic installation, designed, construc-  
ted and tested by the MVTU im. N.E. Bauman, is based on the design of  
the existing installation, and consists of a measuring pouring ladle,  
operated by a pneumatic-hydraulic driving mechanism which draws metal  
from the distributing crucible. A vertical hydraulic cylinder in the  
driving mechanism draws up the metal. The device is also provided  
with 2 pneumatically operated horizontal cylinders, placed one above  
the other. The upper cylinder is used for the removal of waste metal,

Card 1/2



An automatic installation ...

S/145/62/000/009/005/005  
D262/D308

whilst the lower moves the ladle and tilts it for pouring. Automatic control of the installation is executed by an electric system which also allows automatic interlocking, and is designed for semi-automatic and automatic operating conditions. There are 3 figures and 2 tables.

ASSOCIATION: MVTU im. N.E. Bauman (MVTU im. N.E. Bauman)

SUBMITTED: July 12, 1962

Card 2/2

CHUNAYEV, M.V., kand. tekhn. nauk.

Analyzing efficiency factors of automatic shot throwing  
equipment. Lit. proizv. no.12:15-18 D '65. (MIRA 18:12)

L 12816-66 FBD/EWT(1)/EWP(e)/EEG(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SCTB/IJP(c)

ACC NR: AP6001771 WG/WW/GG/WH

SOURCE CODE: UR/0386/65/002/010/0458/04638/

AUTHOR: Akhmanov, S. A.; Yershov, A. G.; Fadeyev, V. V.; Khokhlov, R. V.; Chunayev, O. N.; Shvom, Ye. M. 75

ORG: Physics Department of the Moscow State University (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Observation of two-dimensional parametric interaction of light waves 27, 44, 5

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 10, 1965, 458-463

TOPIC TAGS: ruby laser, laser modulation, parametric amplifier, laser emission coherence

ABSTRACT: The authors report the results of an experiment in which two-dimensional parametric interaction was realized in the optical band, using a ADP nonlinear crystal. The pump was the second harmonic of ruby laser emission ( $\lambda_p = 0.3471 \mu$ ), and the signal was the laser emission itself ( $\lambda_s = 0.6943 \mu$ ). A degenerate interaction mode was thus realized ( $\omega_s = \omega_1 = \omega_2 = \omega_p/2$ ). The two-dimensional interaction of the signal wave with the pump in the ADP crystal gave rise to still another wave at frequency  $\omega_{sup}$  (the supplementary wave), the wave vector of which  $k_{sup}$  had a direction determined by the relation  $k_1 + k_2 = k_p$  and by the dispersion characteristics of the crystal. The tuning curves of the parametric amplifier are presented and expressions for the signal and supplementary power are derived. It is noted that whereas the process of degenerate parametric amplification in one-dimensional interaction is de-

Card 1/2

L 12816-66

ACC NR: AP6001771

terminated essentially by the phase shift between the pump and the signal, the phase dependence disappears for the two-dimensional degenerate interaction. A block diagram of the experimental setup is shown in Fig. 1. The Q-switched ruby laser excites an optical frequency doubler (with a KDP crystal 2 cm long) and is simultaneously

the generator of the amplified signal. The unfocused pump and signal waves interact in the ADP crystal (3 cm long); the way the two-dimensional interaction is realized is clear from the figure. The experiment yielded  $P_{\text{sup}}/P_s(0) = 0.02$  and  $P_s/P_s(0) = 0.8$ , as against the theoretical  $P_{\text{sup}}/P_s(0) = 0.2$  and  $P_s/P_s(0) = 1.0$ . The angular aperture of the two-dimensional parametric interaction exceeds the corresponding value for the one-dimensional amplification, and is equal to the angular aperture of the pump beam. In the experiment the divergence of the pump was  $2'$ , equal to the divergence of the supplementary wave. The theoretical value of the capture angle calculated for the conditions of the experiment is  $10''$ . Authors thank V. G. Dmitriyev, with whom the theoretical research was carried out, G. V. Venkin for help in the experiment, and V. V. Yurlov for the KDP and ADP crystals. Orig. art. has: 3 figures and 4 formulas.

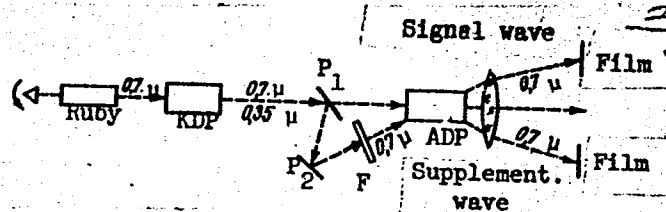


Fig. 1. Block diagram of experimental setup.  $P_1$  and  $P_2$  - plane-parallel plates, F - filter absorbing the pump radiation ( $\lambda_p = 0.3471 \mu$ ).

SUB CODE: 20/ SUBM DATE: 23Jul65/ ORIG REF: 002/ OTH REF: 007/ ATD PRESS [02]  
Card 2/2 jw

4/83

AKHMANOV, S.A.; KOVRIGIN, A.I.; KHOKHLOV, R.V.; CHUNAYEV, O.N.

Length of coherent interaction of light waves in a nonlinear  
medium. Zhur. eksp. i teor. fiz. 45 no.5:1336-1343 N '63.  
(MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet.

AMMANOV, S.A.; YERSHOV, A.G.; FADEYEV, V.V.; KHOKHLOV, R.V.; CHUNAYEV, O.N.;  
SHVON, Ye.M.

Observation of two-dimensional parametric interaction of light  
waves. Pis'. v red. Zhur. eksper. i teoret. fiz. 2 no. 10:  
458-463 N '65. (MIRA 19:1)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta  
imeni Lomonosova. Submitted July 23, 1965.

L 26244-66 EEC(k)-2/EWA(h)/EWP(k)/EWT(l)/EWT(m)/FBD/T/EWP(e) IJP(c) NS/NH  
ACC NR: AP6014020 SOURCE CODE: UR/0056/66/050/004/0829/0843

AUTHOR: Akhmanov, S. A.; Kovrigin, A. I.; Chirkin, A. S.; Chunayev, O. N.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet)

TITLE: Statistical effects associated with the generation of optical harmonics

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 4, 1966, 829-843

TOPIC TAGS: laser, nonlinear optics, second harmonic, ruby laser

ABSTRACT: Results of an experimental and theoretical investigation of statistical effects appearing during generation of the second harmonic in optically transparent crystals are presented. It is established experimentally that under real conditions the correlation coefficient between the power of the second harmonic  $P_2$  and the square of the power of the fundamental radiation emitted by a solid state laser,  $P_1$ , differs from unity and that the proportionality factor  $K$  in the equation,  $P_2 = KP_1^2$ , is a random quantity. In order to explain these effects in the approximation of the field of fundamental radiation, a theory of generation of optical harmonics in the field of randomly modulated waves is developed which takes into account spatial as well as temporal incoherence of the fundamental radiation. The spatial dimensions characterizing the generation of optical harmonics by a bound, randomly modulated beam in an anisotropic medium are determined. It was found that the main

Card 1/2

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sources of excess fluctuations of the second harmonic power are fluctuations of mode phases, mode number, and angular divergence of the fundamental radiation, generation of the optical harmonics being attained by means of ruby or neodymium glass lasers. Experiments on the generation of optical harmonics and mixing of frequencies by means of non-laser light sources are briefly discussed. It is noted that in this case spatial incoherence effects are important. Orig. art. has: 2 figures, 3 tables, and 47 formulas. [CS]

SUB CODE: 20/ SUBM DATE: 15May65/ ORIG REF: 015/ OTH REF: 010/ ATD PRESS: 4244

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C 147 1957, 90, 1483. ~~Chem. Ber.~~  
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HBr, and HBr salt of 2-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH. ~~Chem. Ber.~~  
gave HBr salts of 2-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH. ~~Chem. Ber.~~  
2-methyl-2-imidazoline. ~~Chem. Ber.~~  
2-phenyl-1-hydroxymethyl-2-imidazoline, m. 162° (l. m.  
210°); and 2-naphthylmethyl-1-hydroxymethyl-2-imidazoline  
m. 239° (l. m. 238°). The I of 2-methyl-1-hydroxymethyl-2-  
imidazoline m. 210°; the I of 2-phenyl-1-hydroxymethyl-2-  
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AF



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## CZECH

✓ Determination of acid phosphatases in blood serum.  
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method is described based on incubation of blood serum  
with a buffered soln. of Na 3-naphthyl phosphate for 2 hrs.  
at 37° and direct fluorometric detn. at 4300 Å. of the split-  
off 3-naphthol I following the alkalization (cf. Seligman, *et*  
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(PHOSPHATASES, in blood  
acid, determ. by fluorometry.)

(BLOOD  
phosphatase acid determ. by fluorometry.)

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